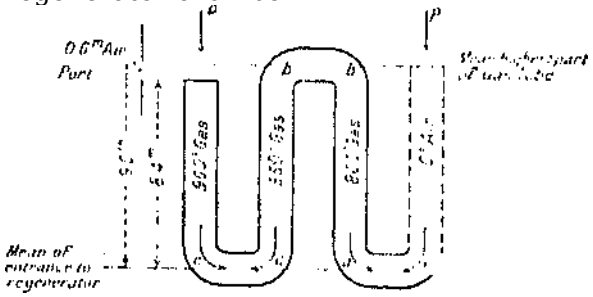
PHYSICAL CONDITIONS BUOYANCY 0
The following are the, calculations for the relative heights j.»-ivon in tin; drawings :- -
1. Kor 1 lit1 jras if • , i , j . i t i ,, ,, ,,
~ • in t ho ports at t ho outranrc <Mi<L
2. I1 or t ho air \ l
o. l«\»r t ho \vasio ibises in tlu» ohininoy.
I«J (i\S«
. Tho V(!r!,ical distn-nci^ of the lini hr.'irlli of tho pnnhu'tT below the. iniddh^ of the highest portion of tlu^ gas conduit and the. mean tempera-lure, of this portion are. taken, as before, us beintf SMiK^tres and HOO respectively. The diiTerenre of luu^'ht heUvee.n tluj hefore-nnuitioned portion of llu1 ^IIH conduit and (Jie, inle.t at the bottom of the regenerator chamber



•// /H'rif.-jtrO/'
/'t ,/(/.*! rr
is also i> motrc.s, but tlie mea,n ft*niperatur(» at this portion in taken at f>f>0 '. The ^as ports are arranged H*4 metres above the inlet io the «;as <'h:tinher, a,nd th(» ^as therein is assumed to be raised from f>f>0 '' to 1/200', its mean temperature bein<r, <mo'.
One can, therefore, regard th<* course; of the ^uws as bein«^ us sketdusd in l''ij^. 4.L In this sketch \<t\} and (/*i) aud (uli) us before, <*orrespoml to the, producer and the ;MIS cotiduit up !<» its highest point, (/«•) to the, *fus conduit ninl Hues to tlnj rej^'nerutor cltatitber, and (c//} to the {\fus passage, through the regenerator up to the, ^urt ports.